

Name: _____

Fractions and Properties of Addition

A pencil will show up when you approach the blue dot. Use the pencil to match the equation with the correct property.

$$\frac{7}{9} + \left(\frac{2}{9} + \frac{4}{9}\right) = \left(\frac{7}{9} + \frac{2}{9}\right) + \frac{4}{9}$$



• Commutative Property

$$4\frac{3}{4} + \left(\frac{2}{4} + 3\frac{1}{4}\right) = 4\frac{3}{4} + \left(3\frac{1}{4} + \frac{2}{4}\right)$$



• Associative Property

$$\left(4\frac{3}{7} + 3\frac{4}{7}\right) + \frac{1}{7} = \left(3\frac{4}{7} + 4\frac{3}{7}\right) + \frac{1}{7}$$



• Commutative Property

• Associative Property

$$\left(1\frac{2}{5} + \frac{1}{5}\right) + 2\frac{4}{5} = 1\frac{2}{5} + \left(\frac{1}{5} + 2\frac{4}{5}\right)$$



★ Use properties of addition and mental math to find the sum.

$$1) 3\frac{4}{10} + \left(\frac{3}{10} + 2\frac{6}{10}\right)$$

Drag and drop the fractions so that fractions that add to 1 are next to each other. Drag and drop to fill in the blank.

$$\boxed{} + \left(\boxed{} + \boxed{} \right)$$

What property did you use? _____

Commutative / Associative

$$3\frac{4}{10} \quad \frac{3}{10} \quad 2\frac{6}{10}$$

Drag and drop the fractions in the same order you placed them above. Drag and drop the parentheses to show which fractions should be added first. Drag and drop to fill in the blank.

_____ + _____ + _____

$$3\frac{4}{10} \quad 2\frac{6}{10} \quad \frac{3}{10} \quad ()$$

What property did you use? _____

Commutative / Associative

Now, let's add!



Drag and drop the fractions again and place the parentheses to show which fractions will be added first.

+ +

$3\frac{4}{10}$ $\frac{3}{10}$ $2\frac{6}{10}$ ()

Use mental math to add the fractions that have a sum of 1. Write your answer in the first spot. Write the other fraction in the other spot and add.

— + — = —

You are done!!

© MARK ANDERSON

WWW.ANDERSONTOONS.COM



"To show you how well I understand fractions,
I only did half of my homework."